

ABSTRACT OF THE DISCLOSURE

A method is described for automatic generation of join graphs for relational database queries. The method includes marking instances of tables in a hierarchical representation of a database schema according to a selection procedure that processes tables in an input list having single occurrences in the hierarchical representation, multi-dimensional tables in the input list having multiple occurrences in the hierarchical representation, one-dimensional tables in the input list having multiple occurrences in the hierarchical representation that reference the multi-dimensional tables and have one of the multi-dimensional tables as a parent in the hierarchical representation, and any remaining one-dimensional tables in the input list having multiple occurrences in the hierarchical representation. The hierarchical representation is configured using expert knowledge of the database usage.